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Attorney Docket: 10044

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Bootland et al.	1	Art Unit: 1645
Serial No.: 10/733,031	1	
Filed: December 11, 2003	1	Examiner:
For: IMMUNIZATION OF FISH WITH	1	
PLANT-EXPRESSED RECOMBINANT	1	
PROTEINS	1	

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37  
C.F.R. §1.56

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Dear Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to applicants in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. §1.56(b). A copy of each listed documents is being submitted to comply with the provisions of 37 C.F.R. §§1.97-1.99.

This submission is not intended to constitute an admission of any kind, and in particular is not an admission that any patent, or other document referred to herein constitutes a printed publication or is otherwise properly citable as prior art with respect to this application. No representation is made that a search has been conducted or that no more material information than that cited herein exists. Accordingly, this submission is not intended to take the place of the Examiner's own independent search of the art.

This Information Disclosure Statement is being filed pursuant to 37 C.F.R. §1.97(b) prior to the first Office Action and/or within three months of filing a national application, entry into

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**CERTIFICATE OF MAILING (37 C.F.R. § 1.8(a))**

I hereby certify that this document is being deposited with the United States Postal Service on the date shown below by Express Mail Post-Office-to-Addressee, Express Mail No. ed029356751 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Oct 1, 2004  
Date

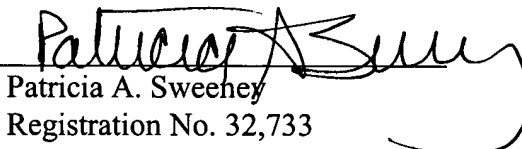
Patricia A. Sweeney  
Patricia A. Sweeney

the national stage as set forth in §1.491, or a continuation application under §1.53(d). Thus it is believed no fee is due.

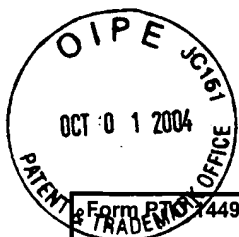
Applicant also provides the following Statement pursuant to 37 C.F.R. §1.97(e). Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Information Disclosure Statement.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form 1449 be returned in accordance with MPEP §609.

Respectfully submitted,

  
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Form P-736 449		ATTY. DOCKET NO. 10044	Application No. 10/733,031
INFORMATION DISCLOSURE CITATION		Applicant Bootland et al.,	
(Use several sheets if necessary)		Filing Date Dec 11, 2003	Group Art Unit

#### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5 1 6 5 9 2 5	11/2 4/19 92	Leong et al.	A61 K	39/00	5/2/1989

#### FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	country	CLASS	SUBCLASS	Translation	
						Yes	No
	w 9 6 1 2 8 0 1	5/2/ 1996	PCT	C12 N	15/00		X
	w 0 2 8 3 0 7 2	10/2 4/20 02	PCT	A61 K			X
	w 9 7 1 4 2 9 0	4/24/ 1997	PCT	A01 C	1/06		X
	w 9 4 0 4 5 6 5	3/3/ 1994	PCT	C07 K	7/08		X
	w 0 2 3 8 7 7 0	5/16/ 2002	PCT	C12 N	15/40		X

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Pryde et al. "Nucleotide sequence analysis of the serotype-specific epitope of infectious pancreatic necrosis virus" Virology (1993) vol. 129, no. 1-4 pp 287-293
		Havarstein et al. "Sequence of the large double-stranded RNA segment of the N1 strain of infectious pancreatic necrosis virus: a comparison with other Birnaviridae" J. General Virology (1990) vol. 71, 299-308.
		Polk A.E. et al. "Oral delivery in aquaculture: controlled release of proteins from chitosan-alginate microcapsules" Aquacultural Engineering (1994) 13: 311-323.
		Wageningen Uni. Dept. of Animal Sciences "Oral vaccination of fish with plant derived protein vaccines" XP-002287469, Cordis, EU Fifth Framework Program April 24, 2003.

EXAMINER	DATE CONSIDERED
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.